



Nortel Ethernet Routing Switch 4500 Series

Nortel Ethernet Routing Switch 4500 Series Regulatory Information

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International Regulatory Statements of Conformity

This is to certify that the Ethernet Routing Switch 4500 Series equipment was evaluated to the international regulatory standards for electromagnetic compliance (EMC) and safety and were found to have met the requirements for the following international standards:

- EMC – Electromagnetic Emissions – CISPR 22, Class A
- EMC – Electromagnetic Immunity – CISPR 24

- Electrical Safety – IEC 60950, with CB member national deviations

Further, the equipment has been certified as compliant with the national standards as detailed below.

National Electromagnetic Compliance (EMC) Statements of Compliance

FCC statement (USA only)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy. If it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case users will be required to take whatever measures may be necessary to correct the interference at their own expense.

ICES statement (Canada only)

Canadian Department of Communications Radio Interference Regulations

This digital apparatus (Ethernet Routing Switch 4500 Series) does not exceed the Class A limits for radio-noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

Règlement sur le brouillage radioélectrique du ministère des Communications

Cet appareil numérique (le commutateur ERS 4500 Series) respecte les limites de bruits radioélectriques visant les appareils numériques de classe A prescrites dans le Règlement sur le brouillage radioélectrique du ministère des Communications du Canada.

CE marking statement (Europe only)

EN 55022 statements

This is to certify that the Ethernet Routing Switch 4500 Series equipment is shielded against the generation of radio interference in accordance with the application of Council Directive 89/336/EEC. Conformity is declared by the application of EN 55022 Class A (CISPR 22).



CAUTION

This device is a Class A product. In a domestic environment, this device can cause radio interference, in which case the user may be required to take appropriate measures. For translations of this message, see "[VCCI statement \(Japan/Nippon only\)](#)" (page 4), "[BSMI statement \(Taiwan only\)](#)" (page 4), "[MIC notice \(Republic of Korea only\)](#)" (page 4), "[Deutsche](#)" (page 23), "[Español](#)" (page 31), "[Français](#)" (page 39), and "[Português](#)" (page 47)

EN 55024 statement

This is to certify that the Ethernet Routing Switch 4500 Series are shielded against the susceptibility to radio interference in accordance with the application of Council Directive 89/336/EEC. Conformity is declared by the application of EN 55024 (CISPR 24).

EN 300386 statement

The Ethernet Routing Switch 4500 Series complies with the requirements of EN 300386 V1.3.1 for emissions and for immunity for a Class A device intended for use in either Telecommunications centre or locations other than telecommunications centres given the performance criteria as specified by the manufacturer.

European Union and European Free Trade Association (EFTA) notice



All products labeled with the CE marking comply with R&TTE Directive (1995/5/EEC) which includes the Electromagnetic Compliance (EMC) Directive (89/336/EEC) and the Low Voltage Directive (73/336/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms (ENs). The equivalent international standards are listed in parenthesis.

- EN 55022 (CISPR 22)–Electromagnetic Interference
- EN 55024 (IEC 61000-4-2, -3, -4, -5, -6, -8, -11)–Electromagnetic Immunity
- EN 61000-3-2 (IEC 61000-3-2)–Power Line Harmonics
- EN 61000-3-3 (IEC 61000-3-3)–Power Line Flicker

VCCI statement (Japan/Nippon only)

This is a Class A product based on the standard of the Voluntary Control Council for Interference (VCCI) for information technology equipment. If this equipment is used in a domestic environment, radio disturbance may arise. When such trouble occurs, the user may be required to take corrective actions.

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

BSMI statement (Taiwan only)

This is a Class A product based on the standard of the Bureau of Standards, Metrology and Inspection (BSMI) CNS 13438 and CNS14336 , Class A.

警告使用者：
這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

MIC notice (Republic of Korea only)

This device has been approved for use in Business applications only per the Class A requirements of the Republic of Korea Ministry of Information and Communications (MIC). This device may not be sold for use in a non-business application.

Observe the Regulatory Marking label on the back or bottom of each switch for specific certification information pertaining to this model. Each Ethernet Routing Switch 4500 Series model is approved for shipment to/usage in Korea and is labeled as such, with all appropriate text and the appropriate MIC reference number.

National Safety Statements of Compliance

EN 60950 statement

This is to certify that the Ethernet Routing Switch 4500 Series equipment is in compliance with the requirements of EN 60950 in accordance with the Low Voltage Directive. Additional national differences for all European Union countries have been evaluated for compliance.

NOM statement (Mexico only)

The following information is provided on the devices described in this document in compliance with the safety requirements of the Norma Oficial Mexicana (NOM):

Exporter: Nortel Networks,
4655 Great America Parkway,
Santa Clara, CA 95054 USA.

Importer: Nortel Networks de México, S.A. de C.V.
Avenida Insurgentes Sur #1605
Piso 30, Oficina
Col. San Jose Insurgentes
Deleg-Benito Juarez México D.F. 03900

Tel: 52 5 480 2100
Fax: 52 5 480 2199

Input: Ethernet Routing Switch 4500 Series:

- 4548GT-PWR
100-240 VAC 6.5 A MAX 50-60 Hz
- 4550T-PWR
100-240 VAC 6.5 A MAX 50-60 Hz
- 4548GT
100-240 VAC 3 A MAX 50-60 Hz
- 4550T
100-240 VAC 3 A MAX 50-60 Hz
- 4526FX
100-240 VAC 3 A MAX 50-60 Hz

Información NOM (únicamente para México)

La información siguiente se proporciona en el dispositivo o en los dispositivos descritos en este documento, en cumplimiento con los requisitos de la Norma Oficial Mexicana (NOM):

Exportador: Nortel Networks,
4655 Great America Parkway,
Santa Clara, CA 95054 USA.

Importer: Nortel Networks de México, S.A. de C.V.
Avenida Insurgentes Sur #1605
Piso 30, Oficina
Col. San Jose Insurgentes
Deleg-Benito Juarez México D.F. 03900

Tel: 52 5 480 2100
Fax: 52 5 480 2199

Embarcar a: Ethernet Routing Switch 4500 Series

- 4548GT-PWR
100-240 VAC 6.5 A MAX 50-60 Hz
- 4550T-PWR
100-240 VAC 6.5 A MAX 50-60 Hz
- 4548GT
100-240 VAC 3 A MAX 50-60 Hz
- 4550T
100-240 VAC 3 A MAX 50-60 Hz
- 4526FX
100-240 VAC 3 A MAX 50-60 Hz

Denan statement (Japan/Nippon only)

本製品を安全にご使用頂くため、以下のことにご注意ください。

- 接続ケーブル、電源コード、ACアダプタなどの部品は、必ず製品に同梱されております添付品または指定品をご使用ください。添付品・指定品以外の部品をご使用になると故障や動作不良、火災の原因となることがあります。
- 同梱されております付属の電源コードを他の機器には使用しないでください。上記注意事項を守らないと、死亡や大怪我など人身事故の原因となることがあります。

National Environmental Statements of Compliance

The WEEE Directive 2002/96/EC and RoHS (Restriction of Hazardous Substances) Directive 2002/95/EC sets collection, recycling and recovery targets for various categories of electrical products and their waste.

Restriction on Hazardous Substances Directive Compliance Statement

The Restriction on Hazardous Substances Directive (RoHS) (2002/95/EC), which accompanies the WEEE Directive, bans the use of heavy metals and brominated flame-retardants in the manufacture of electrical and electronic equipment. Specifically, restricted materials under the RoHS Directive are Lead (including solder used in PCB's), Cadmium, Mercury, Hexavalent Chromium, and Bromine.

Nortel declares compliance with the European Union (EU) RoHS Directive (2002/95/EC).

WEEE Directive Compliance Statement



This product at end of life is subject to separate collection and treatment in the EU Member States, Norway, and Switzerland and therefore is marked with the symbol shown at the left. Treatment applied at end of life of these products in these countries shall comply with the applicable national laws implementing Directive 2002/96/EC on Waste of Electrical and Electronic Equipment (WEEE).

Nortel declares compliance with the European Union (EU) WEEE Directive (2002/96/EC).

How to get help

This section explains how to get help for Nortel products and services.

Getting help from the Nortel web site

The best way to get technical support for Nortel products is from the Nortel Technical Support web site:

www.nortel.com/support

This site provides quick access to software, documentation, bulletins, and tools to address issues with Nortel products. From this site, you can:

- download software, documentation, and product bulletins
- search the Technical Support Web site and the Nortel Knowledge Base for answers to technical issues
- sign up for automatic notification of new software and documentation for Nortel equipment
- open and manage technical support cases

Getting help over the phone from a Nortel Solutions Center

If you do not find the information you require on the Nortel Technical Support web site, and have a Nortel support contract, you can also get help over the phone from a Nortel Solutions Center.

In North America, call 1-800-4NORTEL (1-800-466-7835).

Outside North America, go to the following web site to obtain the phone number for your region:

www.nortel.com/callus

Getting help from a specialist by using an Express Routing Code

An Express Routing Code (ERC) is available for many Nortel products and services. When you use an ERC, your call is routed to a technical support person who specializes in supporting that product or service. To locate the ERC for your product or service, go to:

www.nortel.com/erc

Getting help through a Nortel distributor or reseller

If you purchased a service contract for your Nortel product from a distributor or authorized reseller, contact the technical support staff for that distributor or reseller.

Notices

Notice paragraphs alert you about issues that require your attention. The following paragraphs describe the types of notices used in this guide.

Note: Notes provide tips and useful information regarding the installation and operation of Nortel products.



CAUTION ESD

ESD notices provide information about how to avoid discharge of static electricity and subsequent damage to Nortel products.



CAUTION

Caution notices provide information about how to avoid possible service disruption or damage to Nortel products.



WARNING

Warning notices provide information about how to avoid personal injury when working with Nortel products.



DANGER

Danger — High Voltage notices provide information about how to avoid a situation or condition that can cause serious personal injury or death from high voltage or electric shock.

**DANGER**

Danger notices provide information about how to avoid a situation or condition that can cause serious personal injury or death.

Cautions and Warnings

**WARNING**

Installation must be performed by qualified service personnel only. Read and follow all warning notices and instructions marked on the product or included in the documentation.

**WARNING**

This product relies on the building's installation for overcurrent protection. Ensure that a fuse or circuit breaker no larger than 120 VAC, 15A U.S. (240 VAC, 10 A international) is used on the phase conductors.

**CAUTION**

To reduce the risk of fire, use only number 26 AWG or larger UL Listed or CSA Certified Telecommunication Line Cord for all network connections.

**CAUTION**

Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

**WARNING**

Before working on this equipment be aware of good safety practices and the hazards involved with electrical circuits.

**WARNING**

Fiber optic equipment can emit laser or infrared light that can injure your eyes. Never look into an optical fiber or connector port. Always assume that fiber optic cables are connected to a light source.



Nortel Ethernet Routing Switch 4500 Series

The information presented in this document applies to the following products:

- Nortel Ethernet Routing Switch 4548GT
- Nortel Ethernet Routing Switch 4548GT-PWR
- Nortel Ethernet Routing Switch 4550T
- Nortel Ethernet Routing Switch 4550T-PWR
- Nortel Ethernet Routing Switch 4526FX

Date revised	Version	Reason for revision
January 2007	02.01	New document for Nortel Ethernet Routing Switch 4500 Series
April 2007	02.02	Made change to Argentina certification process requirements.
August 2007	02.03	Amended Portuguese translation

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Before You Begin

Before you begin

Ensure the area where you install and use the ERS 4500 Series switch meets the following environmental requirements:

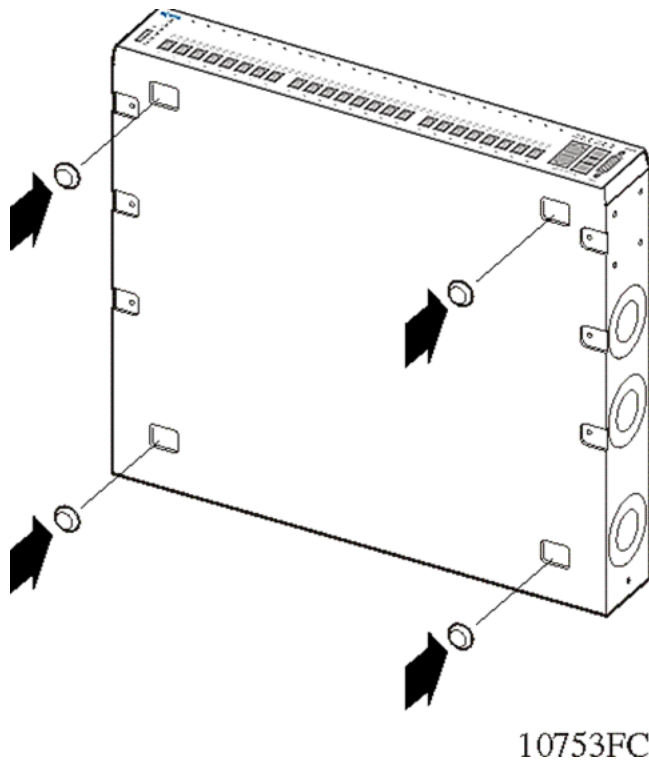
- Ambient temperature between 32° and 106° F (0° and 50° C)
- Relative humidity between 10% and 90% noncondensing
- No nearby heat sources such as hot air vents or direct sunlight
- No nearby sources of severe electromagnetic noise
- No excessive dust
- Adequate power source within six feet; one 15-Amp circuit required for each power supply
- At least 2 inches (5.08 cm) on each side of the switch unit for ventilation
- Adequate space at the front and rear of the switch for access to cables

If you are installing a single Nortel Ethernet Routing Switch on a table or shelf, ensure the surface can support at least 15 to 20 pounds (7 to 9 kilograms).

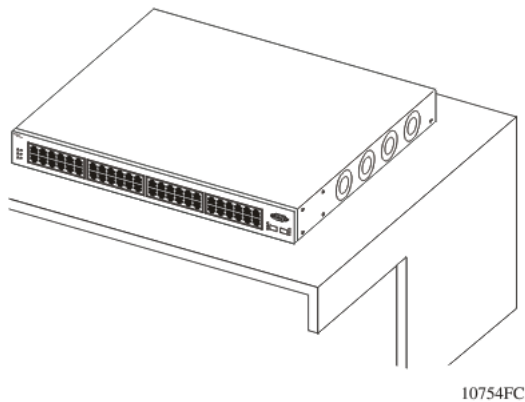
Installing the switch on a table or shelf

You can install a single Nortel Ethernet Routing Switch on any flat surface that can safely support the weight of the switch and attached cables (15 to 20 pounds or 7 to 9 kilograms).

The following figures provide instructions for installing the switch on a table or shelf.



Attach the rubber feet at the marked locations.



Set the switch on a table or shelf.

Note: Allow at least 2 inches (5.1 cm) on each side for proper ventilation and at least 5 inches (12.7 cm) at the back for power cord clearance.

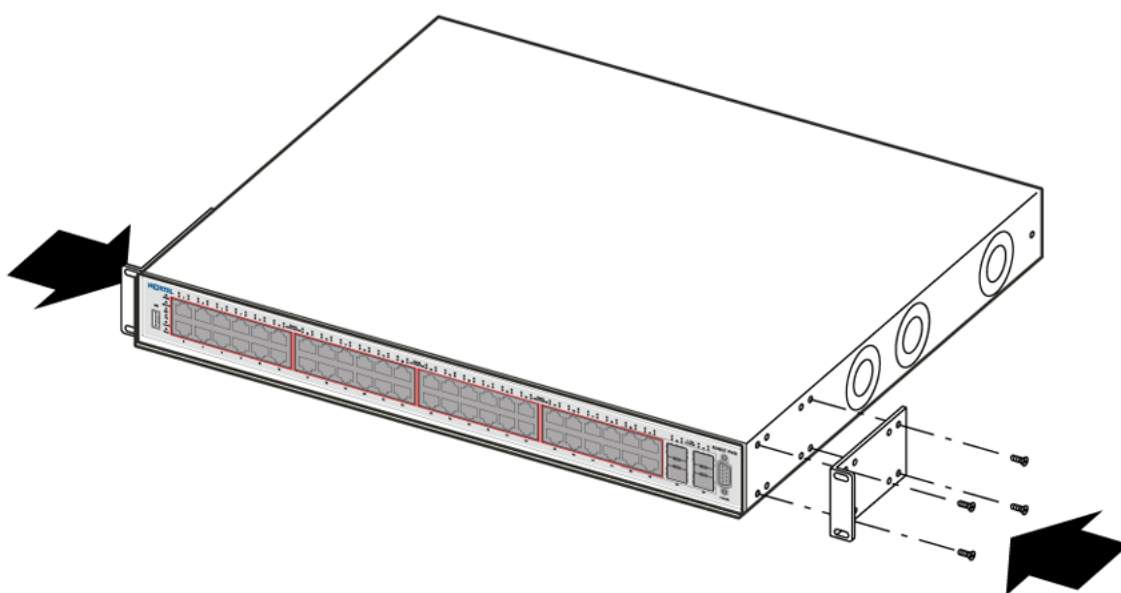
Installing the switch in an equipment rack

Required tool: Phillips screwdriver for attaching brackets to the switch.

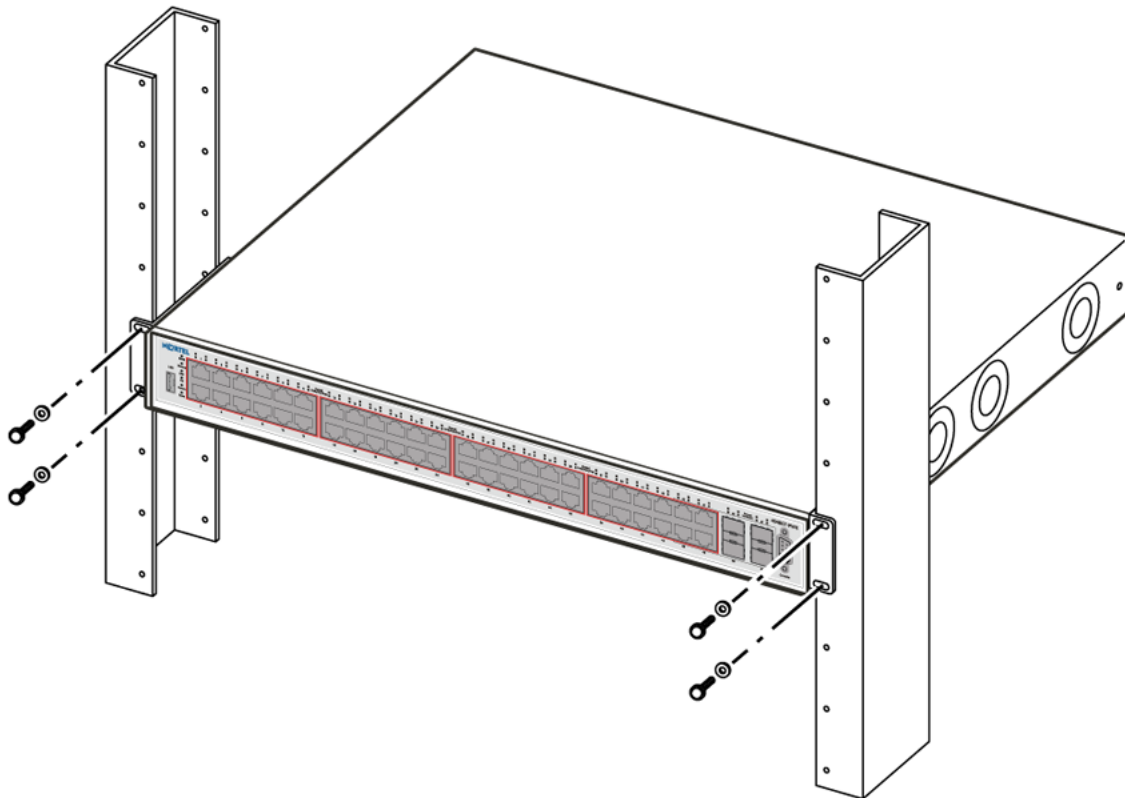
Rack requirements:

- A space of 2.8 inches for each switch in an EIA or IEC standard 19 inch (48.2 centimeter) equipment rack.
- The rack must be bolted to the floor and braced, if necessary.
- The rack must be grounded to the same grounding electrode used by the power service in the area. The ground path must be permanent and must not exceed 1 ohm of resistance from the rack to the grounding electrode.

The following figures provide instruction for installing the switch in a rack.



Attach a bracket to each side of the switch.



Slide the switch into the rack. Insert and tighten the rack mount screws.

Power specifications

AC power specifications

The following table describes the AC power specifications for the Ethernet Routing Switch 4500 Series.

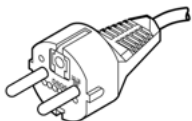
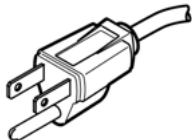
Model	Input current (amps maximum at 100-120 VAC)	Input current (amps maximum at 200-240 VAC)	Input voltage (rms, VAC at 50-60 Hz)	Input voltage (rms, VAC at 50-60 Hz)	Power consumption (watts maximum)	Thermal rating (Btu/h maximum)
ERS 4548GT	3	1.5	100-120	200-240	150	415
ERS 4548GT-PWR	6.5	3.3	100-120	200-240	470	788
ERS 4550T	3	1.5	100-120	200-240	150	240

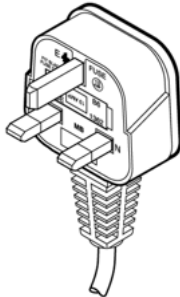
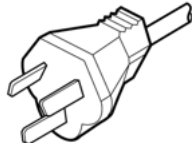
Model	Input current (amps maximum at 100-120 VAC)	Input current (amps maximum at 200-240 VAC)	Input voltage (rms, VAC at 50-60 Hz)	Input voltage (rms, VAC at 50-60 Hz)	Power consumption (watts maximum)	Thermal rating (Btu/h maximum)
ERS 4550T-PWR	6.5	3.3	100-120	200-240	470	615
ERS 4526FX	3	1.5	100-120	200-240	150	256

Connecting AC power

Required cable: AC power cord that meets the requirements of your local electrical code. Refer to ["International power cord specifications"](#) (page 19) for plug specifications.

International power cord specifications

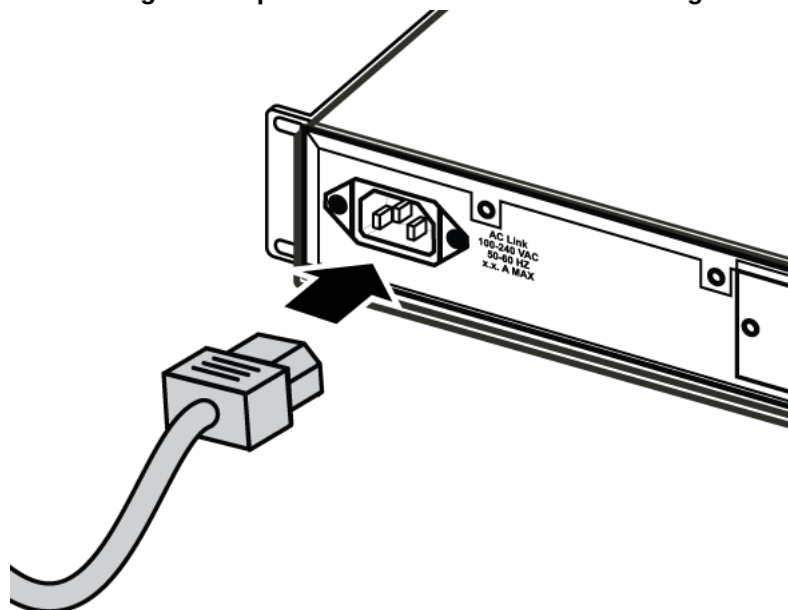
Country and plug description	Specifications	Typical plug
Continental Europe - CEE7 standard VII male plug - Harmonized cord (HAR marking on the outside of the cord jacket to comply with the CENELEC Harmonized Document HD-21)	220 or 230 VAC 50 Hz Single phase	 228FA
U.S./Canada/Japan - NEMA5-15P male plug - UL-recognized (UL stamped on cord jacket) - CSA-certified (CSA label secured to the cord)	100 or 120 VAC 50-60 Hz Single phase	 227FA

Country and plug description	Specifications	Typical plug
United Kingdom - BS1363 male plug with fuse - Harmonized cord	240 VAC 50 Hz Single phase	 229FA
Australia AS3112-1981 male plug	240 VAC 50 Hz Single phase	 230FA

The Ethernet Routing Switch 4500 Series does not have a power switch. When you connect the AC power cord to a suitable AC power outlet, the switch powers up immediately.

Connect the AC power cord to the back of the switch, and then connect the cord to a power outlet.

Connecting the AC power cord to the Ethernet Routing Switch 4500 Series



Connect the AC power cord to the back of the switch, and then connect the cord to a power outlet.

Safety messages



WARNING

Installation must be performed by qualified service personnel only. Read and follow all warning notices and instructions marked on the product or included in the documentation.



DANGER

This equipment relies on the building's installation for overcurrent protection. Ensure that a fuse or circuit breaker no larger than 120 VAC, 15 A U.S. (240 VAC, 16 A International) is used on the phase conductors.



CAUTION

This device is a Class A product. In a domestic environment, this device can cause radio interference, in which case the user may be required to take appropriate measures.



CAUTION

When mounting this device in a rack, do not stack units directly on top of one another in the rack. Each unit must be secured to the rack with appropriate mounting brackets. Mounting brackets are not designed to support multiple units.



DANGER

Use only power cords that have a grounding path. Without a proper ground, a person who touches the switch is in danger of receiving an electrical shock. Lack of a grounding path to the switch can result in excessive emissions.



WARNING

Disconnecting the power cord is the only way to turn off power to this device. Always connect the power cord in a location that can be reached quickly and safely in case of an emergency.



WARNING

Fiber optic equipment can emit laser or infrared light that can injure your eyes. Never look into an optical fiber or connector port. Always assume that fiber optic cables are connected to a light source.



CAUTION

Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

Deutsche

Hinweise zur Verwendung

Achten Sie bei der Installation und Verwendung des ERS 4500 Series auf die folgenden äußeren Bedingungen:

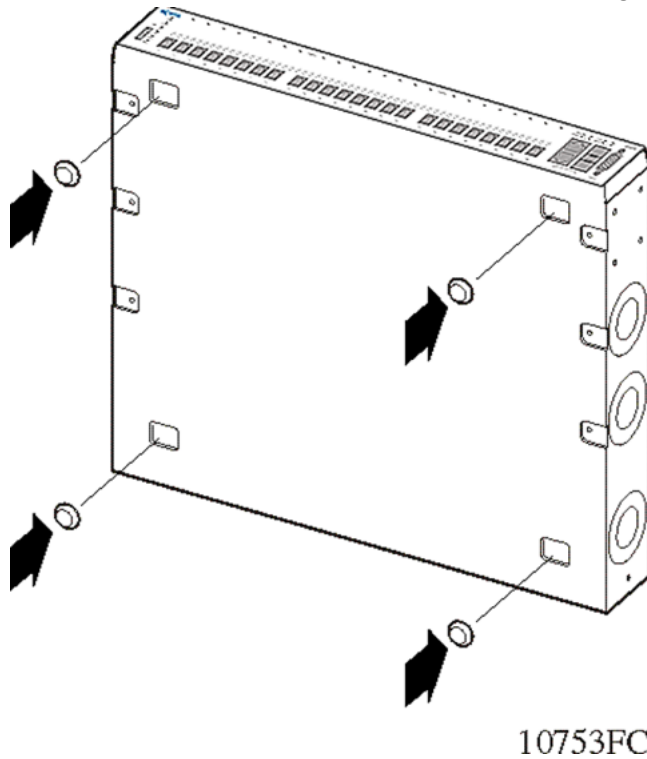
- Raumtemperatur zwischen 0° und 50° C
- relative Luftfeuchtigkeit zwischen 10% und 90% (nicht kondensierend)
- keine Hitzequellen, wie z. B. Heizungen oder direktes Sonnenlicht, in unmittelbarer Nähe
- keine elektromagnetischen Störungen in unmittelbarer Nähe
- keine Umgebungen mit starker Staubbildung
- geeignete Stromversorgung nicht weiter als zwei Meter entfernt; für jeden Anschluss wird jeweils ein 15-Amp-Stromkreis benötigt
- mindestens 5 cm Abstand auf beiden Seiten der Schalteinheit für die Belüftung
- ausreichend Platz an der Vorder- und Rückseite der Einheit für Kabelzugriff

Wenn Sie einen einzelnen ERS 4500 Series auf einem Tisch oder Regal installieren möchten, muss die entsprechende Unterlage über eine Tragfähigkeit von mindestens 7-9 kg verfügen.

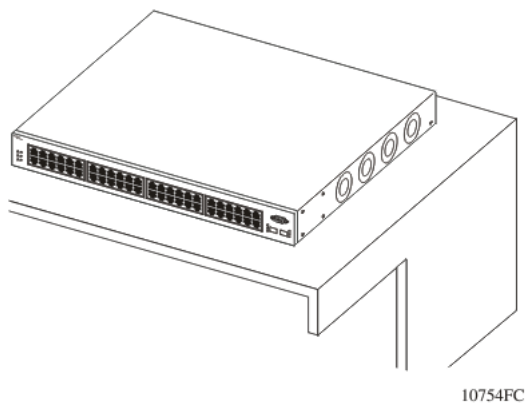
Installation des Switch auf einem Tisch oder Regal

Sie können einen einzelnen ERS 4500 Series auf jeder ebenen Oberfläche installieren, die das Gewicht des Switch (7-9 kg) und der angeschlossenen Kabel tragen kann.

Installation des Switch auf einem Tisch oder Regal



Befestigen Sie die GummifüÙe an den angezeigten Stellen.



Stellen Sie den Switch auf einen Tisch oder Regal.



CAUTION

Hinweis: Lassen Sie an den Seiten des Switch jeweils mindestens 5 cm für ausreichende Belüftung frei und auf der Rückseite mindestens 13 cm, um ausreichend Platz für die Kabel zu gewährleisten.

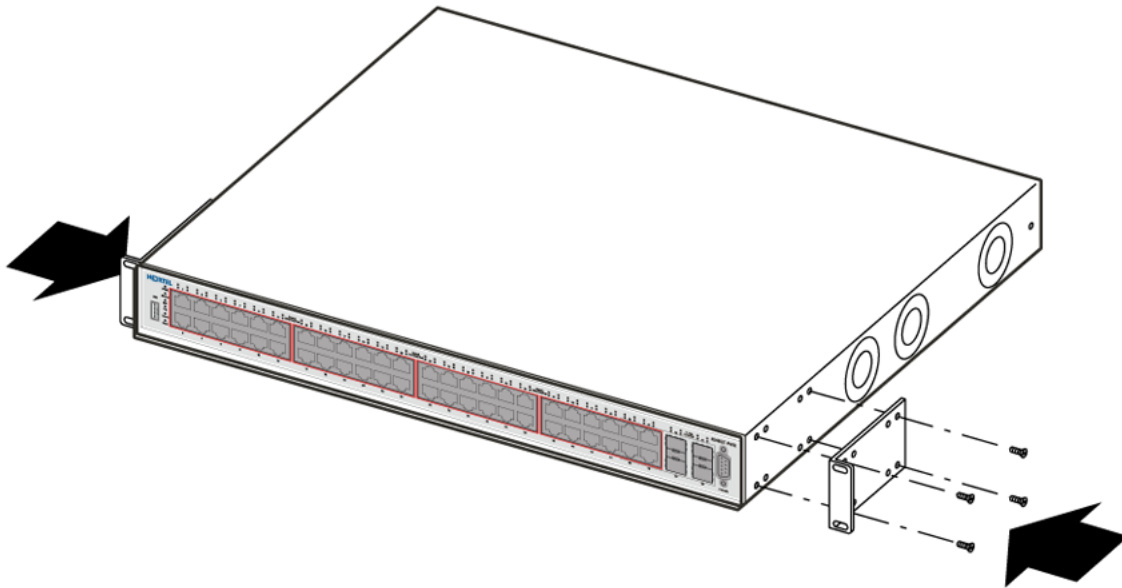
Installation des Switch in einem Rack

Benötigtes Werkzeug: Kreuzschraubendreher, um die Winkel am Switch zu befestigen

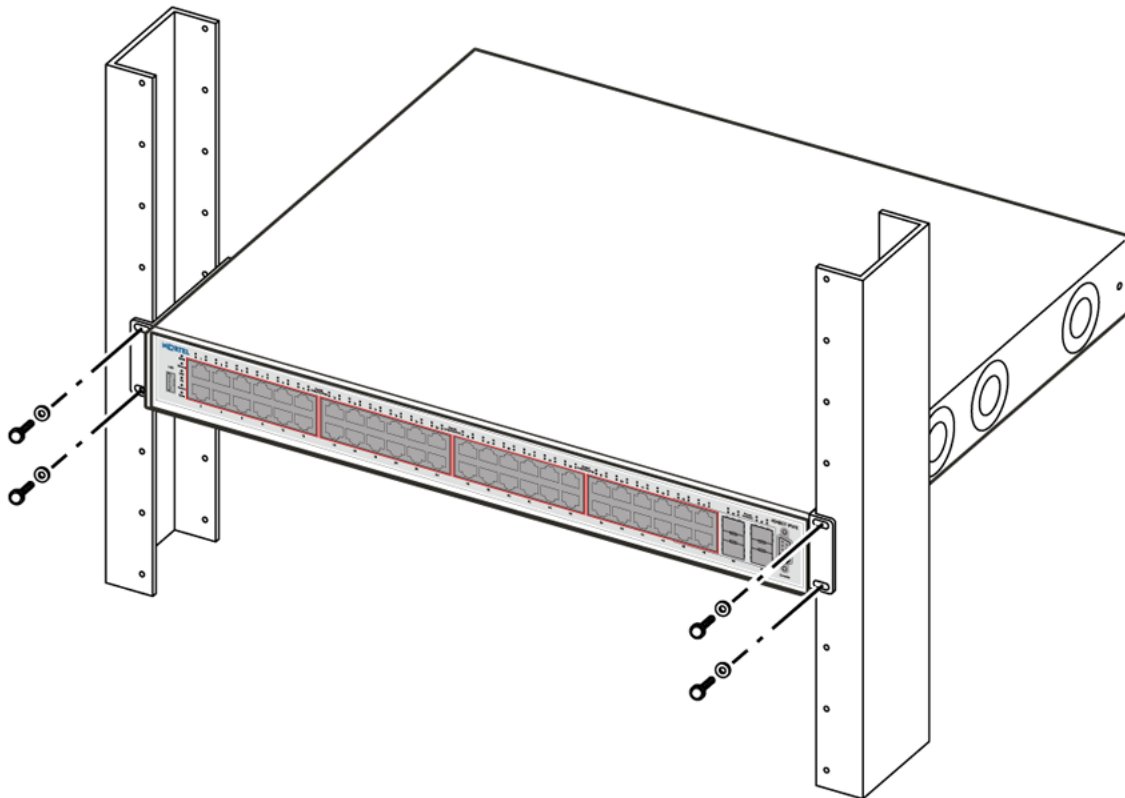
Voraussetzungen für die Installation in einem Rack:

- In einem EIA- oder IEC-Standardrack (19 Zoll) ist für jeden Switch eine Höhe von ca. 7 cm zu berechnen.
- Das Rack muss ggf. am Boden und mit Winkeln an den Seiten verschraubt werden.
- Das Rack muss zu derselben Erdungselektrode geerdet sein, die auch von der Stromversorgung in der Umgebung verwendet wird. Die Erdung muss permanent sein und darf einen Widerstand von 1 Ohm vom Rack zur Erdungselektrode nicht überschreiten.

Installation des Switch in einem Rack



Bringen Sie auf jeder Seite des Switch einen Winkel an.



Führen Sie den Switch in das Rack ein. Befestigen Sie den Switch mit den dafür vorgesehenen Schrauben am Rack.

Leistungsdaten

Leistungsdaten (Wechselstrom)

Die folgende Tabelle beschreibt die Wechselstrom-Leistungsdaten für den ERS 4500 Series.

Wechselstrom-Leistungsdaten: ERS 4500 Series

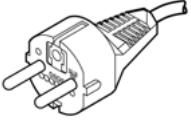
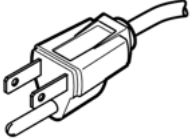
Modell	Eingangsstrom max.		Eingangsspannung (Effektivwert)		Energieverbrauch	Thermische Belastbarkeit
	A 100-120 VAC	A 200-240 VAC	V Wechselstrom bei 50-60 Hz		max. W	max. Btu/h
ERS 4548GT	3	1,5	100-120	200-240	150	415
ERS 4548GT-PWR	6,5	3,3	100-120	200-240	470	788
ERS 4550T	3	1,5	100-120	200-240	150	240

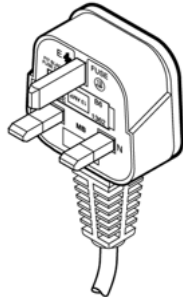
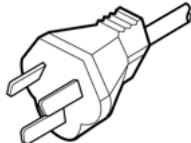
Modell	Eingangsstrom max.		Eingangsspannung (Effektivwert)		Energieverbrauch	Thermische Belastbarkeit
	A 100-120 VAC	A 200-240 VAC	V Wechselstrom bei 50-60 Hz		max. W	max. Btu/h
ERS 4550T-PWR	6,5	3,3	100-120	200-240	470	615
ERS 4526FX	3	1,5	100-120	200-240	150	256

Wechselstrom-Anschluss

Erforderliches Kabel: Stromkabel (Wechselstrom), das die örtlichen elektrischen Sicherheitsvorschriften erfüllt. Angaben zu den einzelnen Netzsteckern finden Sie in .

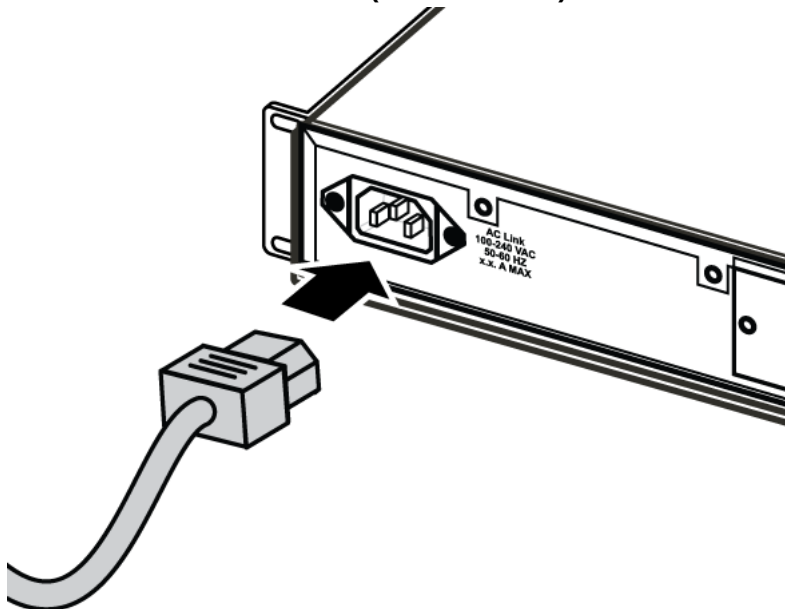
Internationale Angaben zu Stromkabeln

Land/Steckerbeschreibung	Angaben	Typischer Netzstecker
Europa (Kontinent): - Stecker CEE7 Standard VII - abgeglichenes Kabel (Markierung HAR auf der Außenseite des Kabels nach CENELEC Harmonized Document HD-21)	220 oder 230 V Wechselstrom 50 Hz einphasig	 228FA
USA/Kanada/Japan: - Stecker NEMA5-15P UL-geprüft (UL-Stempel auf der Außenseite des Kabels) - CSA-zertifiziert (CSA-Label am Kabel angebracht)	100 oder 120 V Wechselstrom 50-60 Hz einphasig	 227FA

Land/Steckerbeschreibung	Angaben	Typischer Netzstecker
Großbritannien: - Stecker BS1363 mit Sicherung - abgeglichenes Kabel	240 V Wechselstrom 50 Hz einphasig	 229FA
Australien: Stecker AS3112-1981	240 V Wechselstrom 50 Hz einphasig	 230FA

Der ERS 4500 Series hat keinen Netzschalter. Wenn Sie das Stromkabel an eine geeignete Steckdose anschließen, wird der Switch automatisch eingeschaltet. Die Abbildung zeigen, wie Sie das Stromkabel am ERS 4500 Series anschließen.

Anschluss des Stromkabels (Wechselstrom) am ERS 4500 Series



Schließen Sie das Stromkabel an der Rückseite des Switch an, und stecken Sie das Kabel dann in eine Steckdose.

Sicherheitsinformationen



WARNING

Warnung: Die Installation darf nur von qualifiziertem Servicepersonal durchgeführt werden. Lesen und befolgen Sie alle Warnhinweise und Anleitungen, die auf dem Produkt ausgewiesen oder in der Dokumentation enthalten sind.



DANGER

Gefahr: Diese Ausstattung setzt voraus, dass die jeweilige Einrichtung vor Überstrom geschützt ist. Achten Sie darauf, dass die Spannung der Sicherung oder des Schutzschalters, die für die Phasenleiter verwendet wird, nicht mehr als 240 V Wechselstrom, 16 A beträgt.



CAUTION

Achtung: Dieses Gerät ist ein Produkt der Klasse A. In Wohngebieten kann das Gerät Hochfrequenzstörungen verursachen. In diesem Fall muss der Benutzer geeignete Maßnahmen ergreifen.



CAUTION

Achtung: Wenn Sie das Gerät in einem Rack installieren, platzieren Sie Einheiten im Rack nicht direkt übereinander. Jede Einheit im Rack muss mit dafür geeigneten Winkeln befestigt werden. Die Winkel sind nicht dazu geeignet, mehrere Einheiten zu tragen.



DANGER

Gefahr: Verwenden Sie nur geerdete Stromkabel. Ohne Erdung besteht die Gefahr, dass eine Person beim Berühren des Switch einen elektrischen Schlag erhält. Das Fehlen einer Erdung zum Switch kann übermäßige Emissionen zur Folge haben.

**WARNING**

Warnung: Der Strom für dieses Gerät kann nur durch Herausziehen des Stromkabels abgeschaltet werden. Schließen Sie das Stromkabel stets an einer Steckdose an, die Sie in einem Notfall schnell und sicher erreichen können.

**WARNING**

Warnung: Glasfaser-Ausrüstung kann Laser oder Infrarotlicht abgeben, die Ihre Augen beschädigen können. Sehen Sie nie direkt in eine Glasfaser oder einen Verbindungsport. Denken Sie stets daran, dass Glasfaserkabel an eine Lichtquelle angeschlossen sein können.

**DANGER**

Achtung: Gefahr der Explosion, wenn Batterie nach einer falschen Art ersetzt wird. Entledigen Sie sich benutzte Batterien entsprechend den Anweisungen.

Español

Antes de comenzar

Asegúrese de que el área donde va a instalar y utilizar el ERS 4500 Series cumple los siguientes requisitos medioambientales:

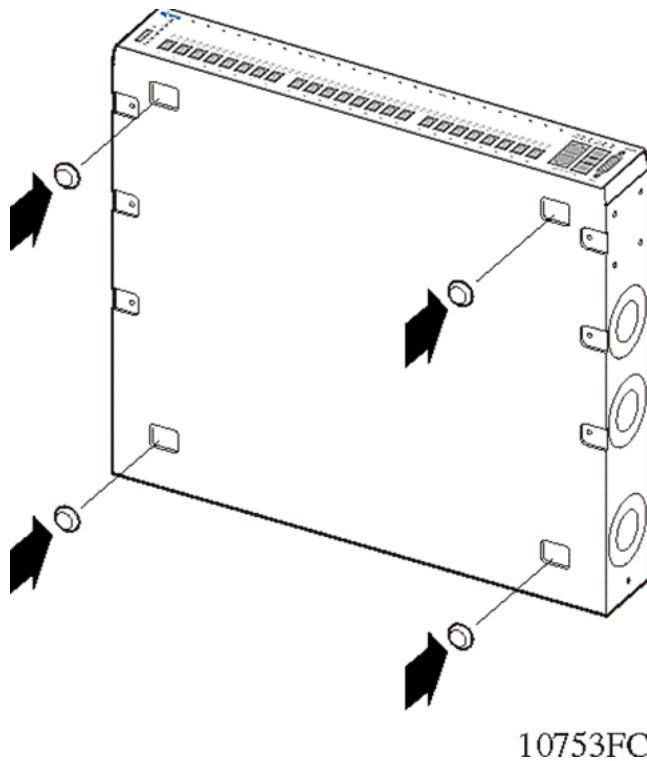
- Temperatura ambiente entre 0° y 50° C (32° y 106° F)
- Humedad relativa entre el 10% y el 90%, sin condensación
- No estar cerca de fuentes de calor como conductos de aire caliente ni de la luz directa del sol
- No estar cerca de fuentes con altos niveles de ruido electromagnético
- No contener niveles de polvo excesivos
- Contar con una fuente de alimentación adecuada a menos de 1.8 metros (6 pies); se requiere un circuito de 15 amperios para cada fuente de alimentación
- Disponer de al menos 5.08 cm (2 pulgadas) a cada lado de la unidad del conmutador para ventilación
- Disponer de espacio suficiente en la parte delantera y posterior del conmutador para poder acceder a los cables

Si desea instalar un ERS 4500 Series en una mesa o estantería, asegúrese de que la superficie puede soportar al menos de 7 a 9 kg (de 15 a 20 libras).

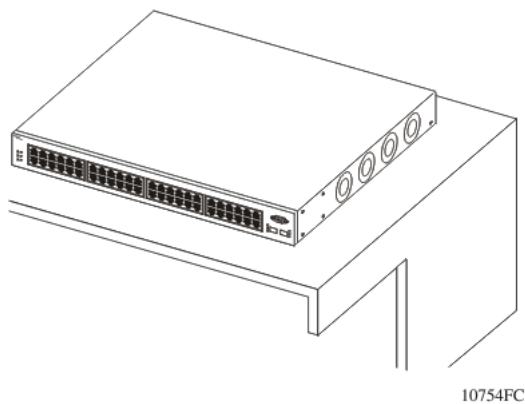
Instalación del conmutador en una mesa o estantería

Puede instalar un ERS 4500 Series en cualquier superficie plana que pueda soportar de forma segura el peso del conmutador y de los cables que lo acompañan (de 7 a 9 kg o de 15 a 20 libras).

La figura se proporcionan instrucciones sobre cómo instalar el conmutador en una mesa o estantería.



Fije las patillas de goma en los lugares marcados.



Coloque el conmutador en una mesa o estantería.

Note: Nota: deje al menos 5.1 cm (2 pulg.) a cada lado para que el dispositivo pueda ventilarse de forma correcta y 12.7 cm (5 pulg.) en la parte posterior para el cable de alimentación.

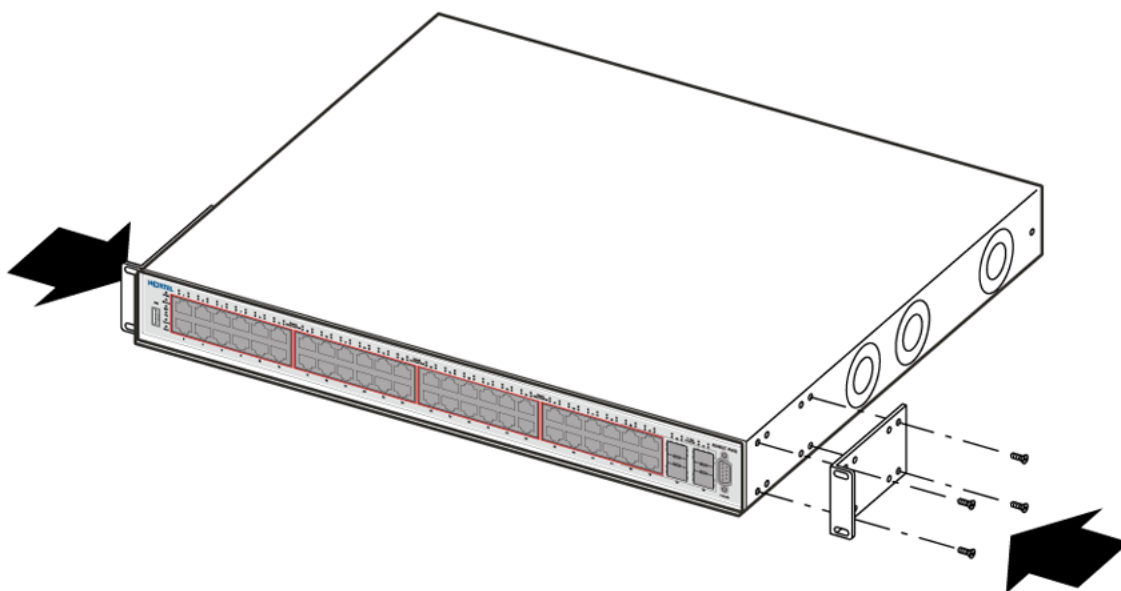
Instalación del conmutador en un bastidor para equipos

Herramienta necesaria: destornillador Phillips para unir los soportes al conmutador

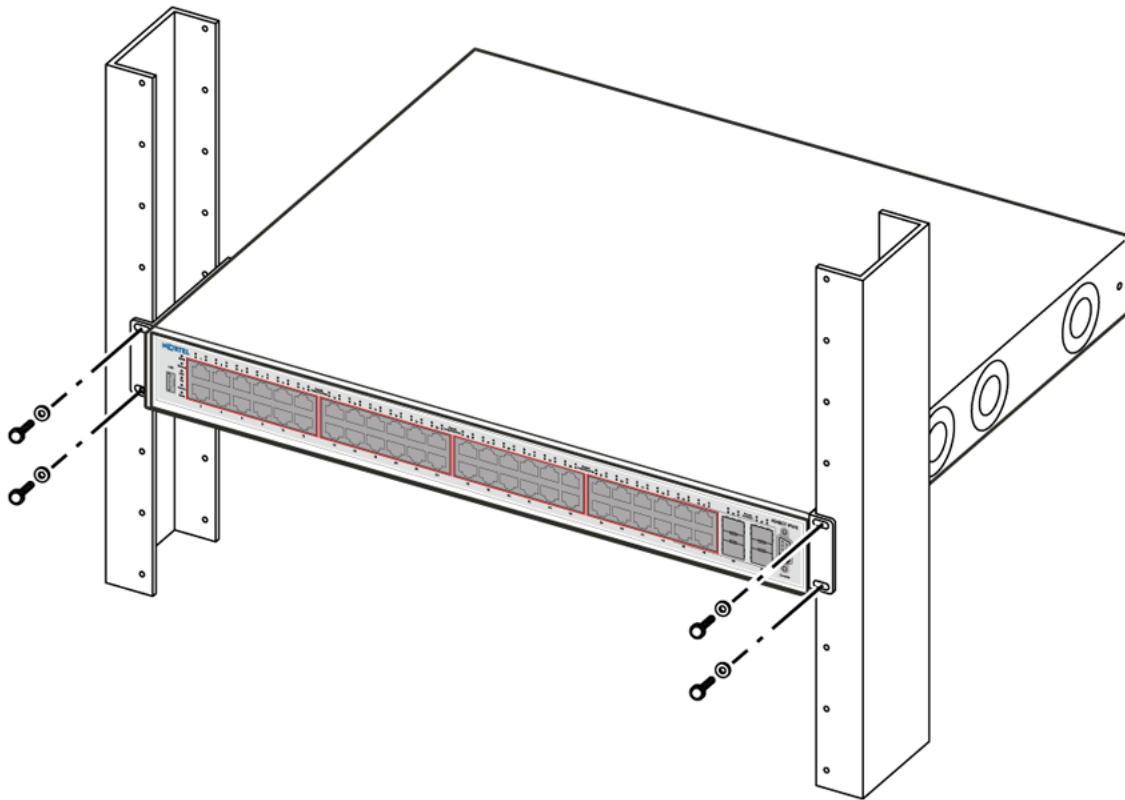
Requisitos del bastidor:

- Se necesita un espacio de 6 cm (2.8 pulg.) para cada conmutador en un bastidor para equipos de 48.2 cm (19 pulg.) que cumpla con la norma EIA o IEC.
- El bastidor debe estar atornillado al suelo y anclado, si es necesario.
- El bastidor debe estar conectado a tierra con el mismo electrodo de conexión a tierra utilizado por el servicio eléctrico de la zona. La conexión a tierra debe ser permanente y no deberá superar 1 ohmio de resistencia desde el bastidor hasta el electrodo de conexión a tierra.

En la Figura se proporcionan instrucciones sobre cómo instalar el conmutador en un bastidor.



Coloque un soporte a cada lado del conmutador.



Introduzca el conmutador en el bastidor. Introduzca y apriete los tornillos para el montaje en bastidor.

Especificaciones eléctricas

Especificaciones eléctricas de CA

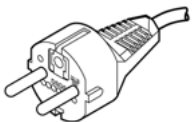
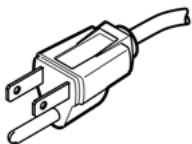
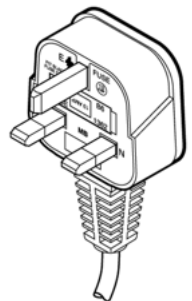
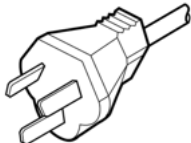
La tabla siguiente describe las especificaciones eléctricas de CA para el ERS 4500 Series sin fuente de alimentación.

Modelo	Corriente de entrada: (Maximo A 100-120 VAC)	Corriente de entrada: (Maximo A) 200-240 VAC	Voltaje de entrada (rms):	Voltaje de entrada (rms):	Consumo de energía: (Maximo W)	Nivel térmico: (Btu/h maximo)
ERS 4548GT	3	1.5	100-120	200-240	150	415
ERS 4548GT-PWR	6.5	3.3	100-120	200-240	470	788
ERS 4550T	3	1.5	100-120	200-240	150	240
ERS 4550T-PWR	6.5	3.3	100-120	200-240	470	615
ERS 4526FX	3	1.5	100-120	200-240	150	256

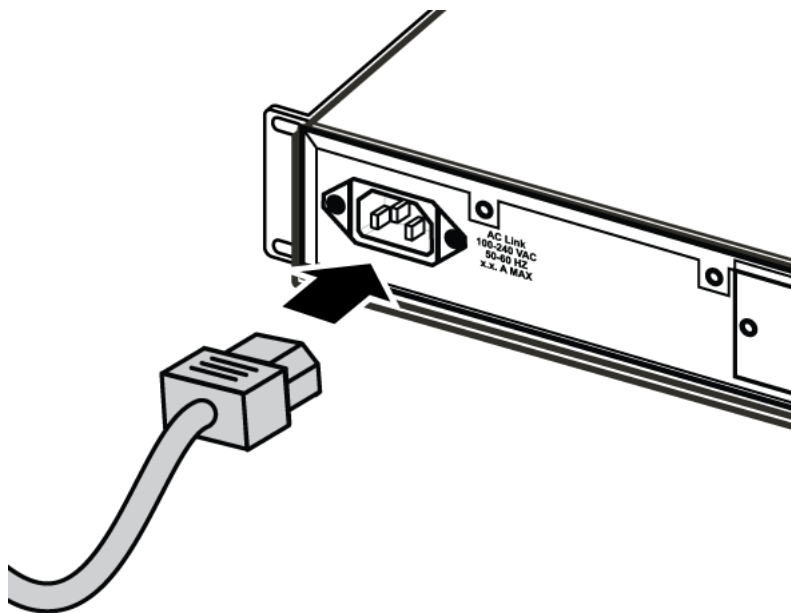
Conexión a CA

Cable necesario: cable de alimentación de CA que cumpla los requisitos del código eléctrico local. Consulte la tabla para obtener información sobre los enchufes.

Especificaciones internacionales sobre clases de alimentación

País/descripción del enchufe	Especificaciones	Enchufe típico
Europa continental: • Enchufe macho CEE7 estándar VII • Cable armonizado (marca HAR en el exterior de la funda para cumplir con el documento de armonización HD-21 de CENELEC)	220 o 230 V CA 50 Hz Monofásico	 228FA
EE.UU./Canadá/Japón: • Enchufe macho NEMA5-15P • Reconocido por UL (UL impreso en la funda del cable) • Certificado por CSA (etiqueta de CSA en el cable)	100 o 120 V CA 50-60 Hz Monofásico	 227FA
Reino Unido: • Enchufe macho BS1363 con fusible • Cable armonizado	240 V CA 50 Hz Monofásico	 229FA
Australia: • Enchufe macho AS3112-1981	240 V CA 50 Hz Monofásico	 230FA

El ERS 4500 Series no dispone de un interrupto de alimentación. Al conectar el cable de alimentación d CA a un conector de entrada CA adecuada, el conmutador se activa inmediatamente. La figura se muestra cómo conectar el cable de alimentación al ERS 4500 Series.



Mensajes de seguridad



WARNING

Aviso: sólo el personal de servicio cualificado puede realizar la instalación. Lea y siga todos los avisos e instrucciones de advertencia grabados en el producto o incluidos en la documentación.



DANGER

Peligro: este equipo confía en la instalación del edificio para la protección contra sobrecargas. Asegúrese de que en los conductores de fase se utiliza un fusible o un disyuntor de menos de 240 V CA, 16 A internacional (120 V CA, 15 A en EE.UU.).



CAUTION

Precaución: este dispositivo es un producto de Clase A. En un entorno doméstico, este dispositivo puede causar radiointerferencias, en cuyo caso se le puede solicitar al usuario que tome las medidas apropiadas.

**CAUTION**

Precaución: al montar este dispositivo en un bastidor, no apile las unidades directamente una encima de otra. Cada unidad debe estar fijada al bastidor con los soportes de montaje apropiados. Los soportes de montaje no están diseñados para soportar varias unidades.

**DANGER**

Peligro: utilice sólo cables de alimentación que tengan conexión a tierra. Sin una toma de tierra adecuada, cualquier persona que toque el conmutador estará en peligro de recibir una descarga eléctrica. La no existencia de una conexión a tierra puede dar lugar a emisiones excesivas.

**WARNING**

Aviso: el único modo de apagar este dispositivo es desconectando el cable de alimentación. Conecte siempre el cable de alimentación en un lugar que sea de acceso rápido y seguro en caso de emergencia.

**WARNING**

Aviso: el equipamiento de fibra óptica puede emitir luz láser o infrarroja que puede dañar los ojos. No mire nunca a través de un puerto de fibra óptica ni de un puerto conector. Tenga en cuenta siempre que los cables de fibra óptica están conectados a una fuente de luz.

**CAUTION**

Precaución: Riesgo de la explosión si la batería es substituida por un tipo incorrecto. Disponga de las baterías usadas según las instrucciones.

Français

Avant de commencer

Assurez-vous que l'endroit où vous installez le commutateur ERS 4500 Series et où vous l'utiliserez soit conforme aux conditions environnementales suivantes:

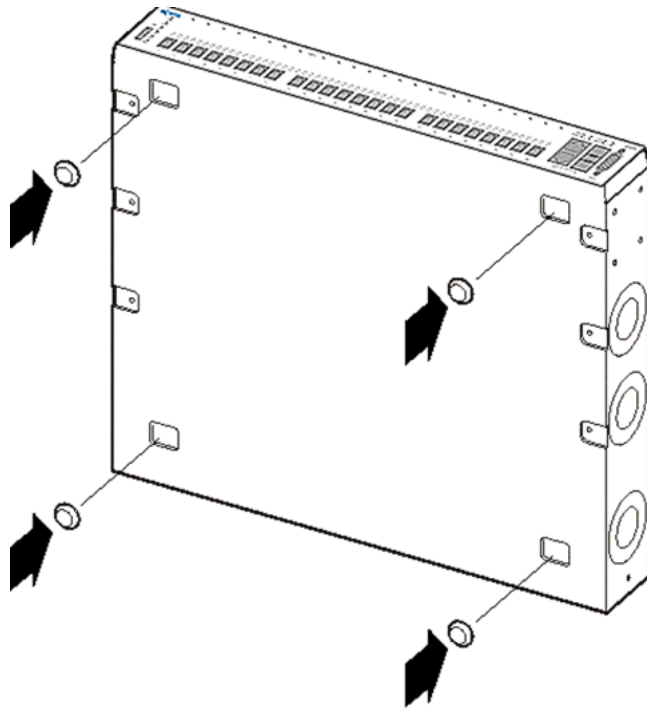
- Température ambiante entre 0° et 50° C (32° et 106° F)
- Humidité relative entre 10 % et 90 % sans condensation
- Aucune source de chaleur à proximité, comme par exemple une ventilation chaude ou la lumière directe du soleil
- Aucune source de bruit électromagnétique à proximité
- Pas de poussière excessive
- Source d'alimentation à une distance maximale de 180 cm. Circuit 15 Amp nécessaire pour chaque alimentation
- Distance minimale de 5,08 cm (2 po) de chaque côté de l'unité de commutation pour la ventilation
- Espace approprié à l'avant et à l'arrière du commutateur pour faciliter l'accès aux câbles.

Si vous installez un seul commutateur ERS 4500 Series sur une table ou sur une étagère, assurez-vous que cette surface puisse supporter un poids d'au moins 7 à 9 kg (15 à 20 livres).

Installation du commutateur sur une table ou sur une étagère

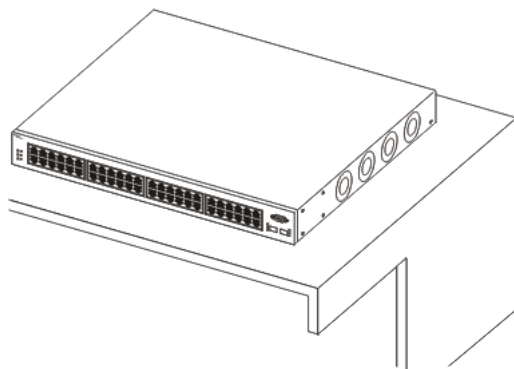
Vous pouvez installer un commutateur ERS 4500 Series sur toute surface plane pouvant supporter le poids du commutateur et des câbles reliés 7 à 9 kg (15 à 20 livres). La figure fournit des instructions sur l'installation du commutateur sur une table ou sur une étagère.

Installation du commutateur sur une table ou sur une étagère



10753FC

Fixez les pieds en caoutchouc aux emplacements indiqués.



10754FC

Installation du commutateur sur une table.

Note: Remarque: Laissez au moins 5,1 cm (2 po) de chaque côté pour la ventilation et 12,7 cm (5 po) à l'arrière pour le dégagement du cordon d'alimentation.

Installation du commutateur dans un rack

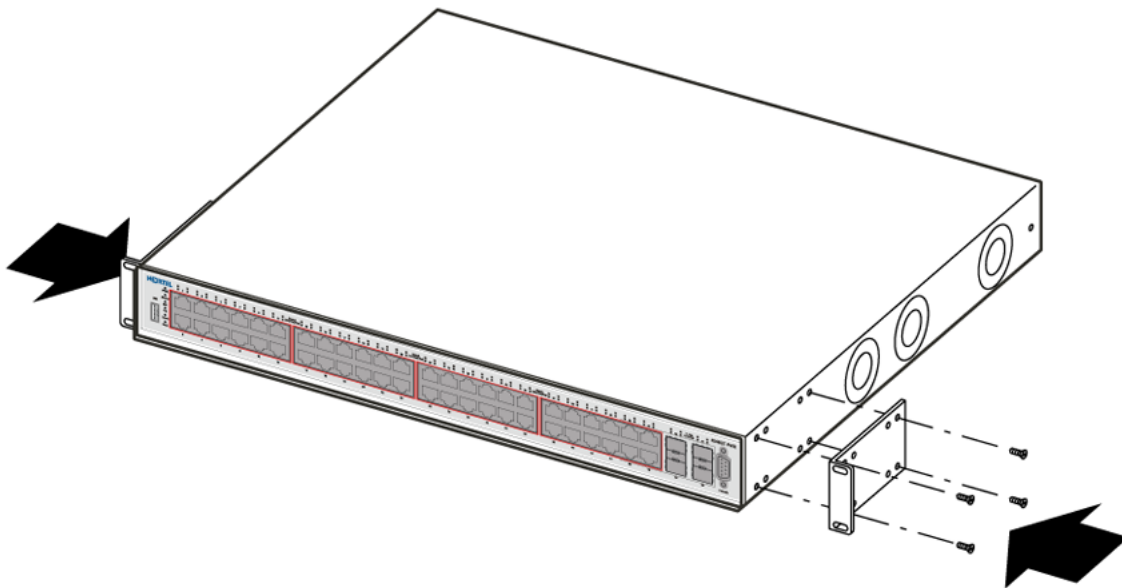
Outil nécessaire: Un tournevis Philips pour attacher les supports au commutateur.

Configuration pour un rack:

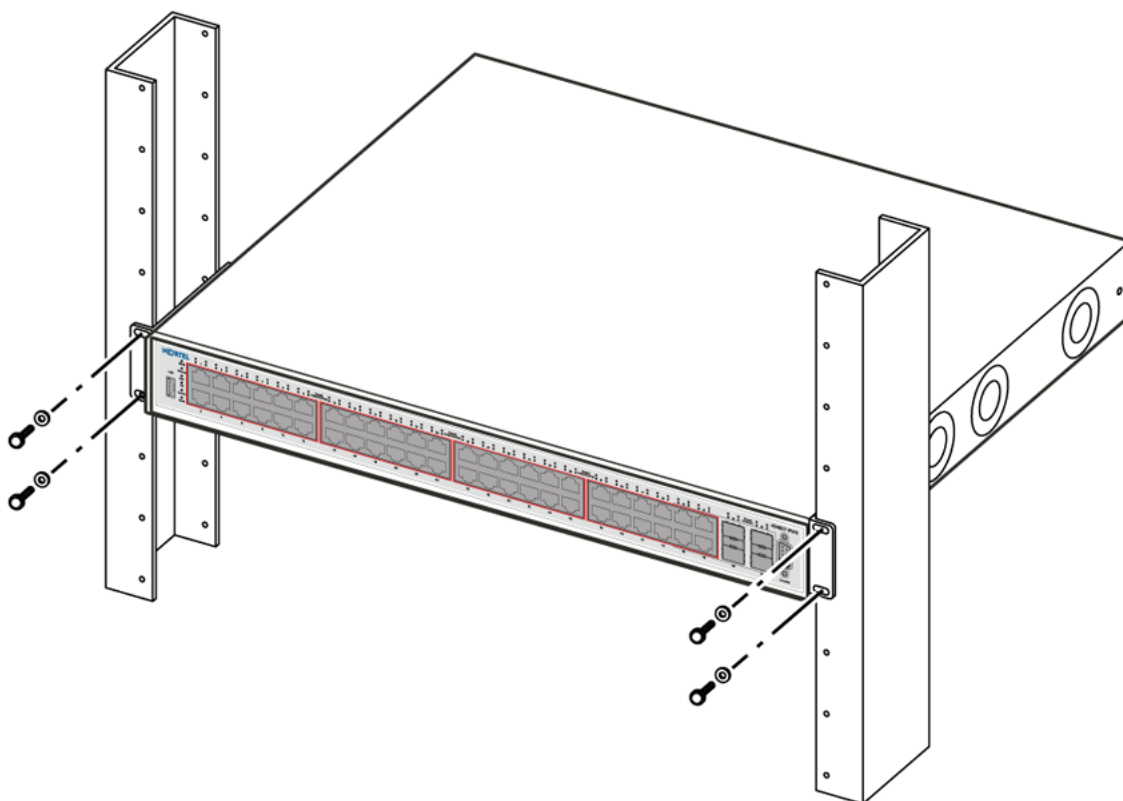
- Un espace de 8,5 cm (2,8 po) est nécessaire pour chaque commutateur dans un rack EIA ou IEC standard de 48 cm (19 po).
- Le rack doit être boulonné au sol et calé si nécessaire.
- Le rack doit être mis à la terre au même conducteur de terre que celui utilisé par le service d'alimentation de l'endroit. Le conducteur de terre doit être permanent et ne doit pas dépasser 1 Ohm de résistance du rack au conducteur de terre.

La figure fournit des instructions sur l'installation du commutateur dans un rack.

Installation du commutateur dans un rack



Fixez un support de chaque côté du commutateur.



Glissez le commutateur dans le rack. Insérez les vis de montage en rack et serrez-les.

Alimentation: Caractéristiques

Alimentation secteur: caractéristiques

La table suivante décrit les caractéristiques d'alimentation secteur du ERS 4500 Series.

Alimentation secteur du ERS 4500: caractéristiques

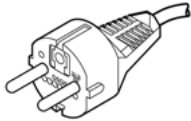
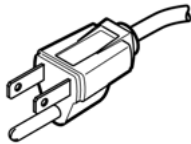
Modèle	Courant d'entrée A maximum		Voltage d'entrée		Consom- mation d'énergie	Puissance thermique maximum
	100-120 VAC	200-240 VAC	rms		W maximum	Btu/h
ERS 4548GT	3	1,5	100-120 Vca a 50-60 Hz	200-240 Vca a 50-60 Hz	150	415
ERS 4548GT- PWR	6,5	3,3	100-120 Vca a 50-60 Hz	200-240 Vca a 50-60 Hz	470	788

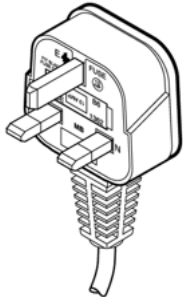
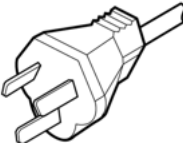
Modèle	Courant d'entrée A maximum		Voltage d'entrée		Consom- mation d'énergie	Puissance thermique maximum
	100-120 VAC	200-240 VAC	rms		W maximum	Btu/h
ERS 4550T	3	1,5	100-120 Vca a 50-60 Hz	200-240 Vca a 50-60 Hz	150	240
ERS 4550T- PWR	6,5	3,3	100-120 Vca a 50-60 Hz	200-240 Vca a 50-60 Hz	470	615
ERS 4526FX	3	1,5	100-120 Vca a 50-60 Hz	200-240 Vca a 50-60 Hz	150	256

Alimentation secteur: connexion

Câble requis: Un cordon d'alimentation conforme aux conditions de votre code électrique local. Reportez-vous au tableau pour les caractéristiques des prises.

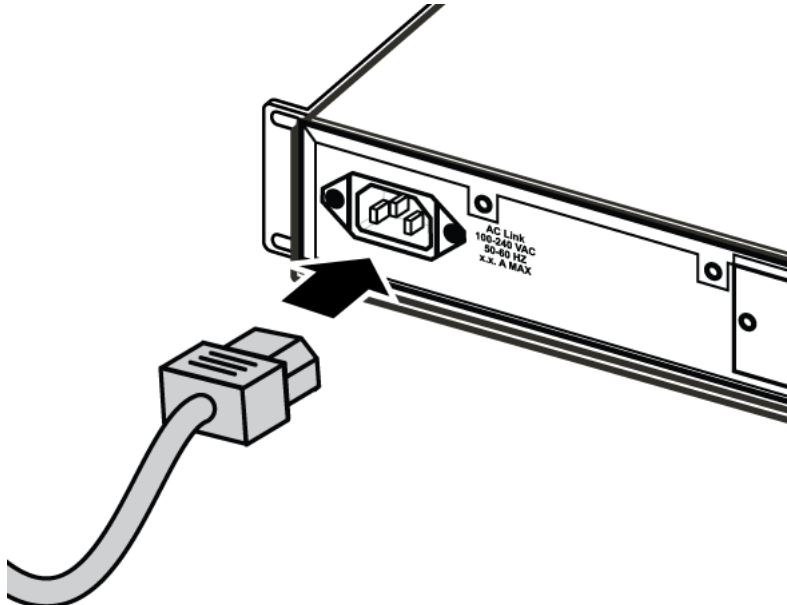
Cordons secteurs internationaux: caractéristiques

Pays/Description de la prise	Caractéristiques	Prise habituelle
Europe continentale: • Prise mâle CEE7 standard VII • Cordon harmonisé (une marque HAR sur l'extérieur du cordon montre la conformité au document harmonisé CENELEC HD-21)	220 ou 230 Vca 50Hz Monophasé	 228FA
États-Unis/Canada/Japon: • Prise mâle NEMA5-15P • Reconnu par UL (Cachet UL sur le cordon) • Certifié CSA (étiquette CSA fixée sur le cordon)	100 ou 120 Vca 50-60 Hz Monophasé	 227FA

Pays/Description de la prise	Caractéristiques	Prise habituelle
Royaume-Uni: • Prise mâle BS1363 avec fusible • Cordon harmonisé	240 Vca 50 Hz Monophasé	 229FA
Australie: • Prise mâle AS3112-1981	240 Vca 50 Hz Monophasé	 230FA

ERS 4500 Series ne possède pas de commutateur d'alimentation. Lorsque vous connectez le cordon d'alimentation à une sortie d'alimentation secteur appropriée, le commutateur s'allume immédiatement. La figure décrivent la manière de connecter le câble d'alimentation au ERS 4500 Series.

Connexion du cordon secteur au ERS 4500 Series



Connectez le cordon d'alimentation à l'arrière du commutateur, puis à une source d'alime

Messages de sécurité



WARNING

Avertissement: L'installation ne doit être effectuée que par des personnes qualifiées. Lisez toutes les notices et instructions d'avertissement indiquées sur le produit ou dans la documentation et suivez-les.



DANGER

Cet équipement dépend des installations du bâtiment pour la protection de surintensité. Assurez-vous de ne pas utiliser un fusible ou un disjoncteur de plus de 120 Vca, 15 A U.S. (240 Vca, 16 A internationaux) sur les conducteurs de phase.



CAUTION

Avertissement: Le périphérique est un produit de Classe A. Dans un environnement domestique, ce périphérique est susceptible de provoquer des interférences radio, auquel cas l'utilisateur doit prendre les mesures appropriées.



CAUTION

Avertissement: Si vous montez cet appareil en rack, ne superposez pas les unités directement les unes sur les autres dans le rack. Chaque unité doit être fixée au rack à l'aide des supports de montage appropriés. Les supports de montage ne sont pas conçus pour supporter plusieurs unités.



DANGER

Utilisez uniquement des cordons d'alimentation possédant un conducteur de terre. S'il n'y a pas de conducteur de terre, une personne qui touche le commutateur peut recevoir un choc électrique. L'absence de conducteur de terre au commutateur peut provoquer des émissions excessives.



WARNING

Avertissement: La seule manière de couper l'alimentation de l'appareil est de déconnecter le cordon d'alimentation. Connectez toujours le cordon d'alimentation à un endroit accessible rapidement et en toute sécurité en cas d'urgence.



WARNING

Avertissement: L'équipement de fibres optiques peut émettre une lumière laser ou infrarouge nuisible à vos yeux. Ne regardez jamais en direction de fibres optiques ou d'un port connecteur. Supposez toujours que les câbles de fibres optiques sont connectés à une source de lumière.



CAUTION

Avertissement: Risque d'explosion si la batterie est remplacée par un type incorrect. Débarassez-vous des batteries utilisées selon les instructions.

Português

Antes de começar

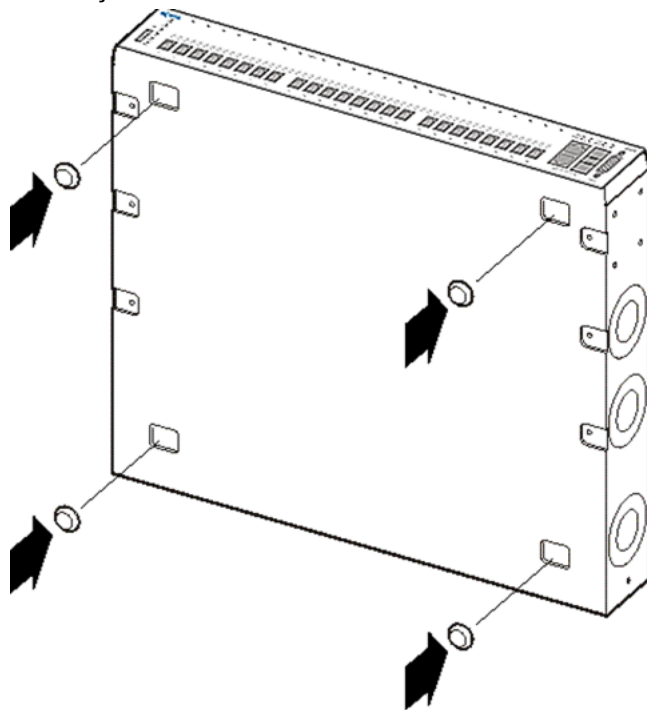
Verifique se a área onde deseja instalar e usar o Ethernet Routing Switch 4500 atende aos seguintes requisitos ambientais:

- Temperatura ambiente entre 32° e 106° F (0° e 50° C)
- Umidade relativa entre 10% e 90% sem condensação
- Nenhuma proximidade a fontes de calor como aberturas de ar quente ou luz solar direta
- Nenhuma proximidade a fontes de intenso ruído eletromagnético
- Não haja poeira excessiva
- Fonte de alimentação adequada acerca de 1,83 m; é necessário um circuito de 15 A para cada fonte de alimentação
- Pelo menos 2 polegadas (5,08 cm) de cada lado da unidade do comutadora para ventilação
- Espaço adequado na parte frontal e posterior do comutador para acesso aos cabos

Instalação do comutador em uma mesa ou estante

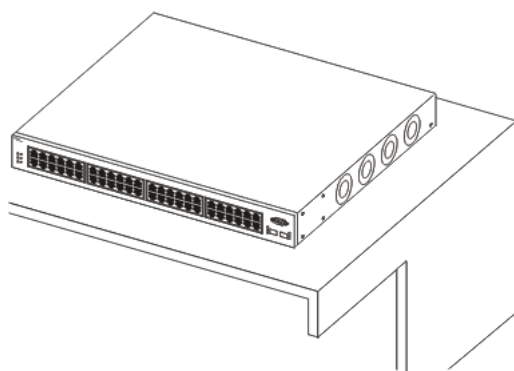
É possível instalar um único Ethernet Routing Switch 4500 em qualquer superfície plana que possa suportar com segurança o peso do comutador e dos cabos conectados (7 a 9 kg). A figura fornece instruções sobre a instalação do comutador em uma mesa ou estante.

Instalação do comutador em uma mesa ou estante



10753FC

Instale os pés emborrachados nos locais marcados.



10754FC

Ajuste o comutador em uma mesa ou estante.

Note: Observação: Deixe pelo menos 2 polegadas (5,1 cm) de cada lado para ventilação adequada e pelo menos 5 polegadas (12,7 cm) na parte posterior para liberação do cabo de alimentação.

Instalação do comutador em um rack de equipamento

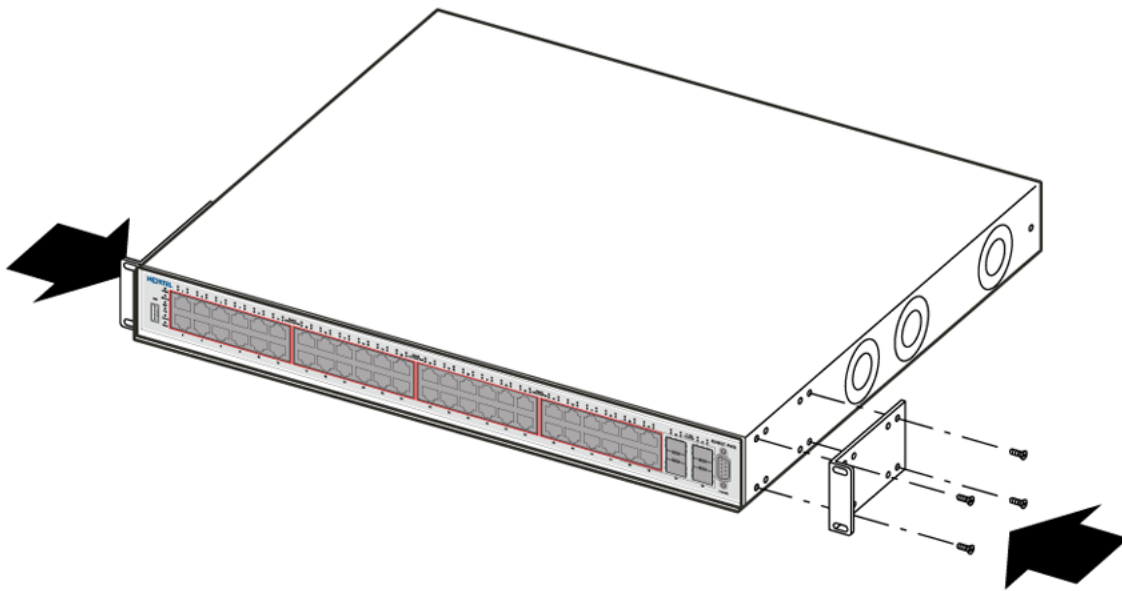
Ferramenta necessária: Chave de fenda Phillips para conexão dos suportes ao comutador

Requisitos do rack:

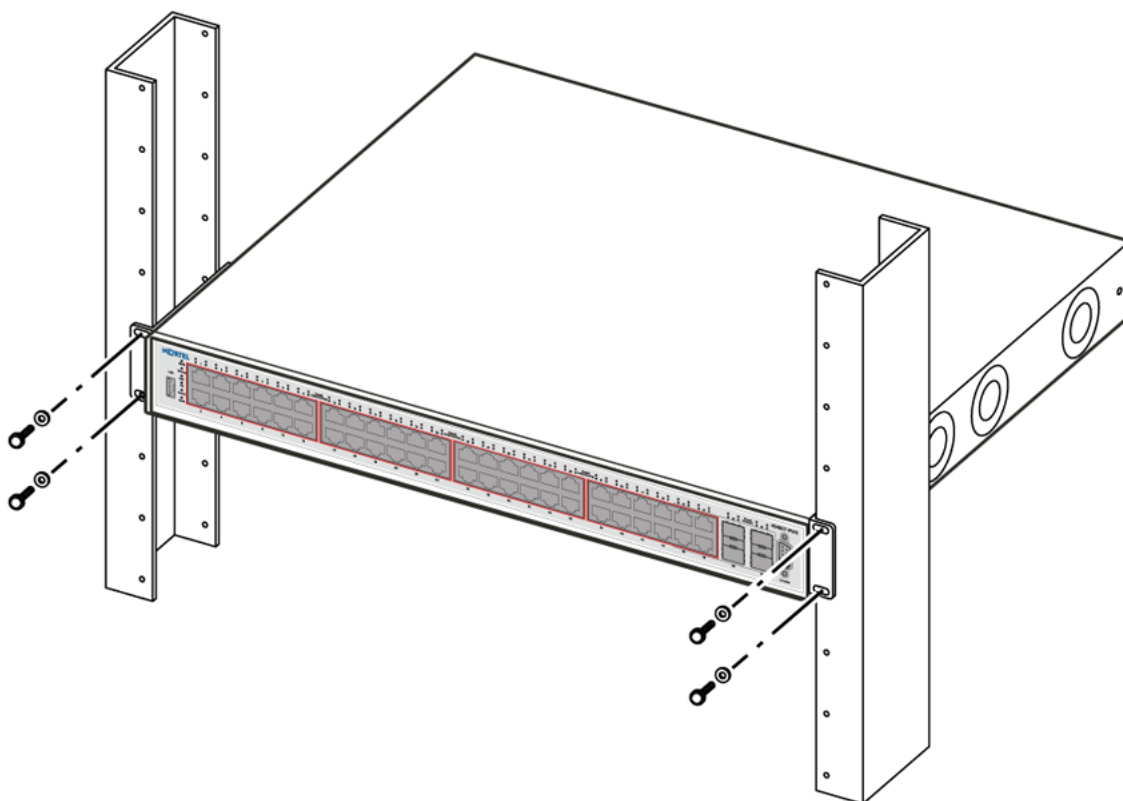
- É necessário um espaço de 2,8 polegadas de cada lado do comutador em um rack de equipamento padrão EIA ou IEC de 19 polegadas (48,2 cm).
- Se necessário, o rack deve ser preso ao chão e fixado.
- O rack deve ser aterrado ao mesmo eletrodo de aterramento usado pela companhia elétrica da região. O caminho de aterramento deve ser permanente e não exceder 1 ohm de resistência do rack ao eletrodo de aterramento.

A figura fornece instruções sobre a instalação do comutador em um rack.

Instalação do comutador em um rack



Conecte um suporte em cada lado do comutador.



Deslize o comutador no rack. Insira e aperte os parafusos de montagem em rack.

Especificações do energia

Especificações de alimentação CA

A seguinte tabela descreve as especificações de alimentação CA para o Ethernet Routing Switch 4500 Series.

Especificações de alimentação CA: Ethernet Routing Switch 4500 Series

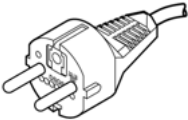
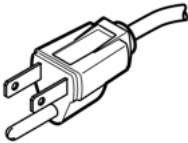
Modelo	Corrente de entrada: (Máximo A, 100-120 VCA)	Corrente de entrada: (Máximo A, 200-240 VCA)	Tensão de entrada (rms):	Tensão de entrada (rms):	Consumo de energia: (Máximo W)	Potência térmica: (Btu/h Máximo)
ERS 4548GT	3	1,5	100-120 VCA a 50-60 Hz	200-240 VCA a 50-60 Hz	150	415
ERS 4548GT-PWR	6,5	3,3	100-120 VCA a 50-60 Hz	200-240 VCA a 50-60 Hz	470	788

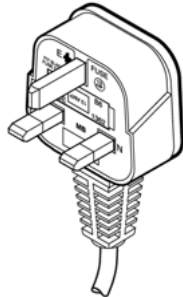
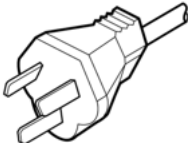
Modelo	Corrente de entrada: (Máximo A, 100-120 VCA)	Corrente de entrada: (Máximo A, 200-240 VCA)	Tensão de entrada (rms):	Tensão de entrada (rms):	Consumo de energia: (Máximo W)	Potência térmica: (Btu/h Máximo)
ERS 4550T	3	1,5	100-120 VCA a 50-60 Hz	200-240 VCA a 50-60 Hz	150	240
ERS 4550T-PWR	6,5	3,3	100-120 VCA a 50-60 Hz	200-240 VCA a 50-60 Hz	470	615
ERS 4526FX	3	1,5	100-120 VCA a 50-60 Hz	200-240 VCA a 50-60 Hz	150	256

Conexão da alimentação CA

Cabo requerido: Cabo de alimentação CA que atende os requisitos de seu código de eletricidade local. Consulte a tabela para obter especificações de conector.

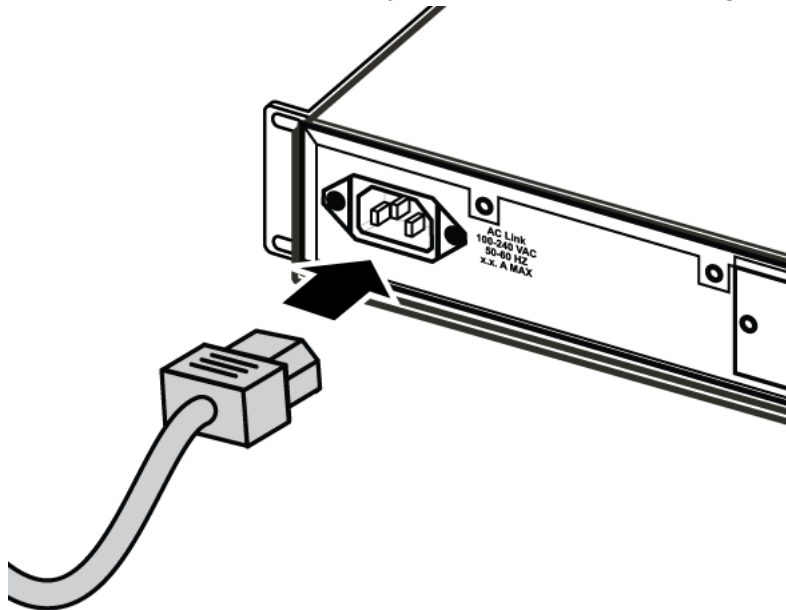
Especificações internacionais de cabo de alimentação

País/descrição de conector	Especificações	Conector típico
Europa: - Conector macho VII padrão CEE7 - Cabo harmonizado (marca HAR no lado externo da tomada do cabo em conformidade com o documento CENELEC Harmonized Document HD-21)	220 ou 230 VCA 50Hz Uma fase	 228FA
EUA/Canadá/Japão: - Conector macho NEMA5-15P - Reconhecido por UL (UL estampado na tomada do cabo) - Certificado por CSA (etiqueta de CSA presa no cabo)	100 ou 120 VCA 50-60 Hz Uma fase	 227FA

Pais/descrição de conector	Especificações	Conector típico
Reino Unido: - Conector macho BS1363 com fusível - Cabo harmonizado	240 VCA 50 Hz Uma fase	 229FA
Austrália: Conector macho AS3112-1981	240 VCA 50 Hz Uma fase	 230FA

O Ethernet Routing Switch 4500 Series não possui um interruptor de alimentação. Ao conectar o cabo de alimentação CA a uma tomada de alimentação CA adequada, o comutador é alimentado imediatamente. Da figura mostram como conectar o cabo de alimentação CA ao Ethernet Routing Switch 4500 Series.

Conexão do cabo de alimentação CA ao Ethernet Routing Switch 4500 Series



Conecte o cabo de alimentação CA à parte posterior do Ethernet Routing Switch 4500 Series e, em seguida, conecte o cabo a uma tomada de alimentação.

Mensagens de segurança



WARNING

Aviso: A instalação só deve ser executada por técnicos qualificados. Leia e siga todos os avisos e instruções marcados no produto ou fornecidos na documentação.



DANGER

Perigo: Este equipamento depende da instalação do edifício para proteção contra corrente excessiva. Certifique-se de que um fusível ou disjuntor não superior a 120 VCA, 15 A EUA (240 VCA, 16 A Internacional) é utilizado nos condutores de fase.



CAUTION

Atenção: Este dispositivo é um produto Classe A. Em um ambiente doméstico, este dispositivo pode causar interferência de rádio. Nesses casos, o usuário deverá tomar as medidas adequadas.



CAUTION

Atenção: Ao montar este dispositivo em um rack, não empilhe as unidades diretamente uma sobre a outra no rack. Cada unidade deve ser presa ao rack com os suportes de montagem apropriados. Os suportes de montagem não são projetados para suportar várias unidades.



DANGER

Perigo: Use apenas cabos de alimentação que possuam um caminho de aterramento. Sem um aterramento adequado, se uma pessoa tocar no comutador corre o risco receber um choque elétrico. A falta de um caminho de aterramento para o comutador pode resultar em emissões excessivas.



WARNING

Aviso: Desconectar o cabo de alimentação é o único modo de desligar a energia deste dispositivo. Sempre conecte o cabo de alimentação em um local em que possa ser alcançado de forma rápida e segura em caso de emergência.



WARNING

Aviso: Equipamento de fibra óptica pode emitir luz laser ou infravermelha que pode ferir os olhos. Nunca olhe em uma fibra óptica ou porta conectora. Sempre considere que os cabos de fibra óptica são conectados a uma fonte de iluminação.



CAUTION

Atenção: Risco da explosão se a bateria for substituída por um tipo incorreto. Disponha de baterias usadas de acordo com as instruções.

Nortel Ethernet Routing Switch 4500 Series

Nortel Ethernet Routing Switch 4500 Series Regulatory Information

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